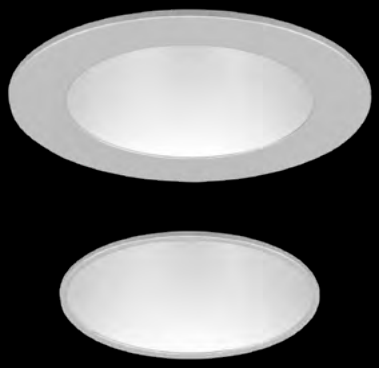
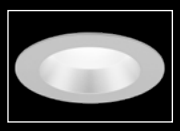
ID+ 2.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS

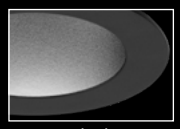
FOCAL POINT®




Solite lens

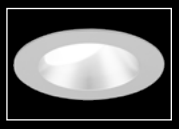

Clear diffuse


Warm diffuse

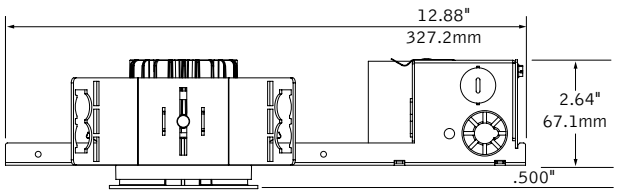

Black


White

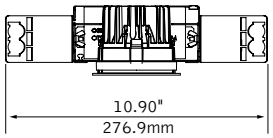

Optional painted flanges


Wall Wash companion

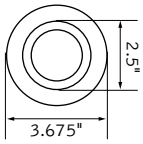
DIMENSIONAL DATA



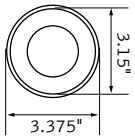
Field adjustability of ceiling thickness from 0.5" - 1.5"
Housing height with DALI, Lutron & LZ1 drivers is 3.0"



Overlap Trim



Trimless



FEATURES

Less than 2.64" low profile housing available.

60˚ and 75˚ cut-off reflector options available.

25˚ to 90˚ beam spreads support accent lighting, task lighting and general illumination

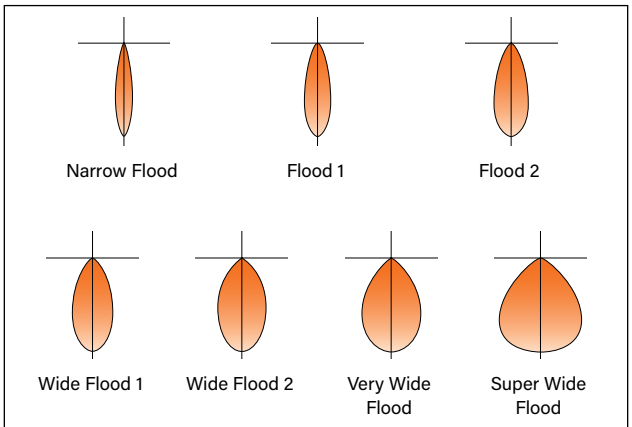
Solite lens with die-cast trim delivers 70˚ or 90˚ beam spread options.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Configurations available for Title 24 JA8 High Efficacy Lighting compliance.

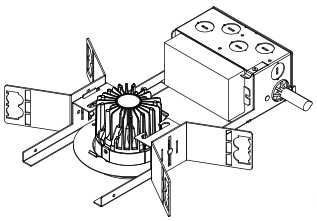
DISTRIBUTIONS



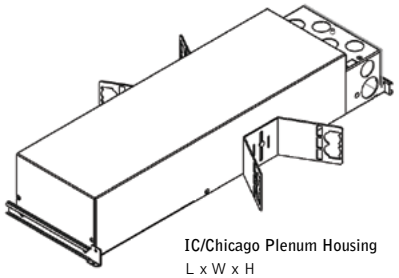
Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture: project:

HOUSING DETAILS



T-Rated Housing
L x W x H
12.88" x 11.0" x 2.64"
DALI, Lutron & LZ1 height = 3.0"



IC/Chicago Plenum Housing
L x W x H
20.19" x 10.9" x 3.53"

HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. LC2AT trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings. Butterfly brackets allow mounting to ½" emt. Order bar hangers as an accessory. Die–cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) ½" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceiling access required, overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height: Clear Diffuse & White: 17.2ft. Black & Warm Diffuse: 15.5ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications. Configurations available for Title 24 JA8 compliance, consult the JA8 High Efficacy Lighting Reference Guide for options. JA8 factory option must be speficied to ensure Title 24 JA8 compliance.

Lumen Maintenance

Reported:	L70 at >55,000 hours	Calculated:	L70 at 204,000 hours
	L90 at >55,000 hours		L90 at 59,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20˚C to +40˚C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, or Warm Dimming (2700K-1800K and 3000K-1800K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-cast aluminum trims. Overlap trims are self-flanged.

Optics

60-degree or 75-degree cut–off to light source and its image.

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread | Spacing Criteria						
			NFL	FL1	FL2	WFL1	WFL2	VWFL	SWFL
DNS	60˚	Overlap	20˚ | 0.36	33˚ | 0.54	42˚ | 0.68	52˚ | 0.80	64˚ | 0.92	-	-
		Trimless	21˚ | 0.38	33˚ | 0.54	43˚ | 0.68	51˚ | 0.78	62˚ | 0.88	-	-
DSS	75˚	Overlap	-	-	-	52˚ | 0.86	61˚ | 0.88	70˚ | 1.02	81˚ | 1.14
		Trimless	-	-	-	52˚ | 0.84	65˚ | 0.90	69˚ | 0.98	89˚ | 1.26

PERFORMANCE TABLE - see page 3.

HOUSING ORDERING

	FLC2D
Housing Series	
ID+ 2.5" Round	FLC2D
Trim Type	
Round Overlap	RDO
Round Trimless	RDT
Color Options	
Standard White, 80 & 90 CRI	SW
High 97 CRI	HC
Warm Dim (900L only. UNV, LV & EMR not available.)	WDM
Lumen Output	
500 Lumen (L11, LD1 & LVN only)	500L
700 Lumen (Not available with LFP or LH1)	700L
900 Lumen (Not available with LFP or LH1)	900L
1100 Lumen	1100L
1300 Lumen	1300L
1500 Lumen	1500L
1700 Lumen	1700L
1900 Lumen (L11, LD1 & LH1 only)	1900L
Voltage	
120/277 Volt (IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)	UNV
120V	120
277V	277
Low Voltage (IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)	LV
Control System & Dimming Level	
0-10V <1% Dimming	LZ1
0-10V - 1% Dimming	L11
0-10V - 10% Dimming	LD1
Low Voltage, PoE Compatible (No driver. Not available with EMR. LV voltage only.)	LVN
Forward Phase (120V only)	LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1
DALI <1% Dimming	DZ1
DALI - 1% Dimming	D11
Housing Type	
IC Rated / Airtight (1500L max.)	IC
Thermally Protected, Non-IC	T
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	TW
Factory Options	
Bar Hangers	BH
Chicago Plenum	CP
Emergency Battery -Remote test switch (Overlap trim & T Housing only. Above ceiling access.)	EMR
Outdoor Rated (LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 3.)	OD
Title 24 / JA8 Compliant (Consult JA8 Reference Guide for available options.)	JA8

TRIM & LED MODULE

Aperture	
2.5" Round Reflector	LC2
2.5" Round Airtight Reflector	LC2AT
Trim Type	
Round Overlap	RDO
Round Trimless	RDT
Lumen Output (Trim & housing output must match. See options above.)	
Color Temperature (Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)	
2700K, 80/90/97+ CRI	_27K
3000K, 80/90/97+ CRI	_30K
3500K, 80/90/97+ CRI	_35K
4000K, 80/90/97+ CRI	_40K
Warm Dim: 2700-1800K, 90+ CRI	92718W
Warm Dim: 3000-1800K, 90+ CRI	93018W
Optic	
Short Cone with 60˚ cut-off	DNS
Super Short Cone with Solite Lens 75˚ cut-off	DSS
Distribution	
Narrow Flood (DNS only)	NFL
Flood (DNS only)	FL1
Flood (DNS only)	FL2
Wide Flood	WFL1
Wide Flood	WFL2
Very Wide Flood (DSS only)	VWFL
Super Wide Flood (DSS only)	SWFL
Finish	
Clear Diffuse	CD
Warm Diffuse	WD
Black	BK
White	WH
Optional Flange Finish (Overlap CD & WD finish only. For matching finishes leave blank.)	
Black Painted	BP
White Painted	WP
Factory Options	
Title 24 / JA8 Compliant (Trim & housing must match.)	JA8

ACCESSORIES

Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC2-WOOD-KIT

2.5" ROUND DOWNLIGHT PERFORMANCE TABLE

	Lumen Output	Delivered Lumens	System Watts	LPW
	500L	513	6	86
	700L	756	8.2	92
WD	900L	880	14.6	60
	900L	929	9.9	94
	1100L	1139	11.9	96
	1300L	1354	16.2	84
	1500L	1527	18.1	84
	1700L	1746	20.7	84
	1900L	1949	23.3	84

Based on Overlap, Short cone, 3500K, 80 CRI, Flood 2, Clear Diffuse. WDM based on 3000 - 1800K, 90 CRI.
Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

Lumen Output	Minimum Dimming Level
500L	25%
700L	17%
900L	13%
1100L	10%
1300L	10%
1500L	10%
1700L	10%
1900L	10%

2.5" ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

Trim Type	Optic	Color Temperature & CRI		Multiplier
ALL	ALL	2700K	80+ CRI [27K]	0.92
			90+ CRI [927K]	0.79
			97 CRI [H27K]	0.67
		3000K	80+ CRI [30K]	0.98
			90+ CRI [930K]	0.83
			97 CRI [H30K]	0.72
		3500K	80+ CRI [35K]	1.00
			90+ CRI [935K]	0.82
			97 CRI [H35K]	0.73
		4000K	80+ CRI [40K]	1.01
			90+ CRI [940K]	0.84
			97 CRI [H40K]	0.76
		2700-1800K	90+ CRI [92718K]	0.93
		3000-1800K	90+ CRI [93018K]	0.98

Distribution

Trim Type	Optic	Distribution	Multiplier
Round Trimless [RDT]	Short Cone with 60˚ cut-off [DNS]	Narrow Flood [NFL]	1.05
		Flood 1 [FL1]	0.99
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.00
		Wide Flood 2 [WFL2]	0.91
	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Wide Flood 1 [WFL1]	1.07
		Wide Flood 2 [WFL2]	0.82
		Very Wide Flood [VWFL]	0.85
		Super Wide Flood [SWFL]	0.75
Round Overlap [RDO]	Short Cone with 60˚ cut-off [DNS]	Narrow Flood [NFL]	1.05
		Flood 1 [FL1]	0.99
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.00
		Wide Flood 2 [WFL2]	0.91
	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Wide Flood 1 [WFL1]	1.07
		Wide Flood 2 [WFL2]	0.82
		Very Wide Flood [VWFL]	0.85
		Super Wide Flood [SWFL]	0.75

Color

Trim Type	Optic	Color	Multiplier
ALL	Short Cone with 60˚ cut-off [DNS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.99
		White [WH]	1.08
		Black [BK]	0.90
	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.98
		White [WH]	1.08
		Black [BK]	0.90

How To Use Lumen Multipliers

Formula:
(Lumen Output Value) x
(Color Temperature & CRI) x
(Distribution) x
(Color)

Example:

LC2-RDO-SW-1100L-935K-DNS-FL1-WH

(1100) x (0.83) x (0.99) x (1.08) ≈ 976lm
(estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information,